

## Title (en)

METHOD FOR IDENTIFICATION OF THE MONOISOTOPIC MASS OF SPECIES OF MOLECULES

## Title (de)

VERFAHREN ZUR IDENTIFIZIERUNG DER MONOISOTOPISCHEN MASSE VON SPEZIEN VON MOLEKÜLEN

## Title (fr)

PROCÉDÉ D'IDENTIFICATION DE LA MASSE MONOISOTOPIQUE D'ESPÈCES DE MOLÉCULES

## Publication

**EP 3293755 A1 20180314 (EN)**

## Application

**EP 17174330 A 20170602**

## Priority

EP 16188157 A 20160909

## Abstract (en)

The invention concerns a method for identification of the monoisotopic mass or a parameter correlated the mass of the isotopes of the isotope distribution of at least one species of molecules contained in a sample and/or originated from a sample by at least an ionisation process. The method is comprising the following steps: (i) measuring a mass spectrum of the sample with a mass spectrometer (ii) dividing at least one range of measured m/z values of the mass spectrum of the sample into fractions (iii) assigning at least some of the fractions of the at least one range of measured m/z values to one processor of several provided processors (iv) deducing for each of the at least one species of molecules contained in the sample and/or originated from the sample from the measured mass spectrum in at least one of the fractions of the at least one range of measured m/z values an isotope distribution of their ions having a specific charge z (v) deducing from at least one deduced isotope distribution of the ions of each of the at least one species of molecules contained in the sample and/or originated from the sample the monoisotopic mass or a parameter correlated the mass of the isotopes of the isotope distribution of the species of molecules.

## IPC 8 full level

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**G01N 30/72** (2013.01 - CN); **H01J 49/0036** (2013.01 - EP US)

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